

AMENDMENTS TO THE SPECIFICATION

Please amend the first full paragraph on page 27 as follows:

The description has been made for the embodiments with respect to the thrust bearing, the present invention can also be applied to grooves 2 in the radial bearing. While the groove of the pump-in thrust bearing is designed as being shallower from the circumference towards the shaft, the radial bearing has the groove 2 designed such that it has a depth modified to be gradually shallower from the upstream side to the downstream side of the relative rotation (as indicated by the direction of the arrow 8 of Fig. 10) ~~is gradually shallower from the top end to the bottom end.~~

Also, the groove 2 may be formed on the inner surface of the sleeve 3 rather than the outer surface of the shaft 1.